MICROBMONITOR® 2 **Quick Guide** for Aircraft Fuel Tank Samples

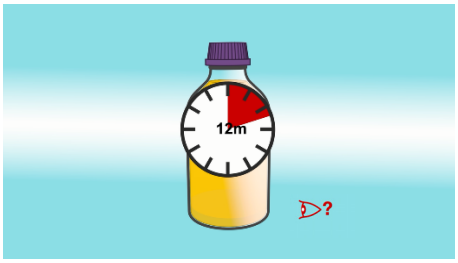
echa Results that count

1



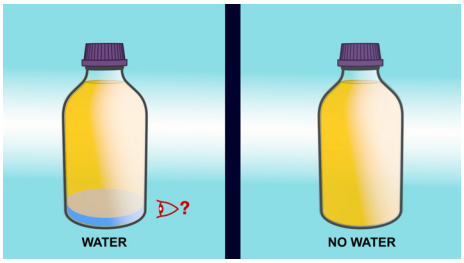
Shake the sample for 30 seconds.

2



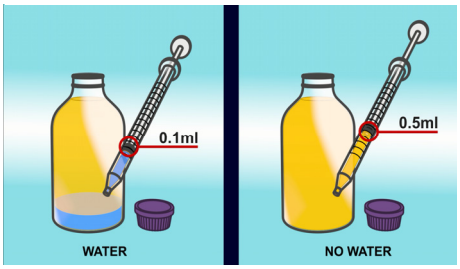
Stand sample for 12 minutes, then observe for water.

3



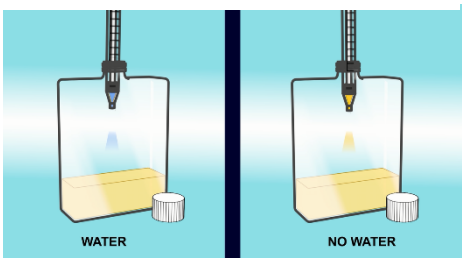
If sufficient free water is present, this should be tested separately from the fuel (recover the water into another smaller container if needed). If no water is present, the fuel must be tested.

4



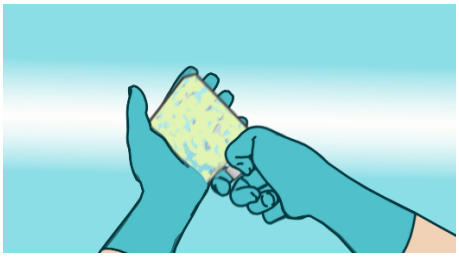
If testing **water**, draw 0.1 ml from the bottom of the sample using the syringe. If testing **fuel**, draw 0.5 ml from 3 cm below the sample surface. Both water and fuel can be tested separately if required.

5



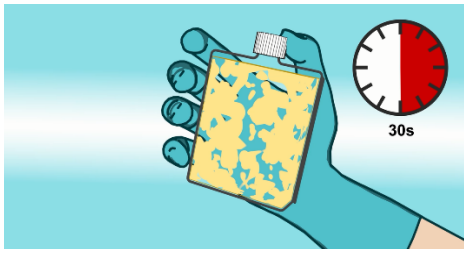
Add the measured volume of sample to the test.

6



Tap the bottle firmly in the palm of your hand to break up the gel.

7



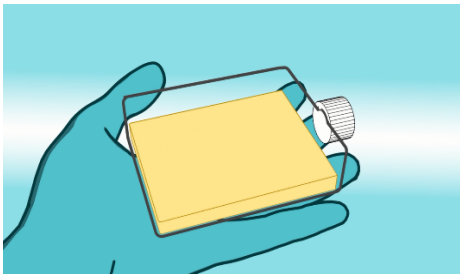
Shake the test vigorously for 30 seconds to liquefy the gel and disperse the sample. The gel should now be free of lumps and have a uniform consistency.

8



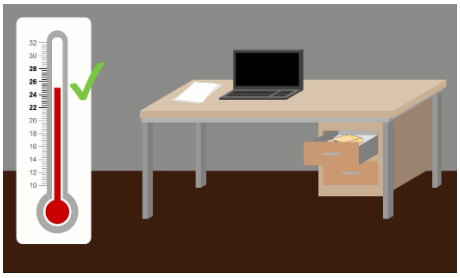
Abruptly stop shaking the test so the gel collects in the bottom of the bottle. Proceed to point 9 immediately.

9



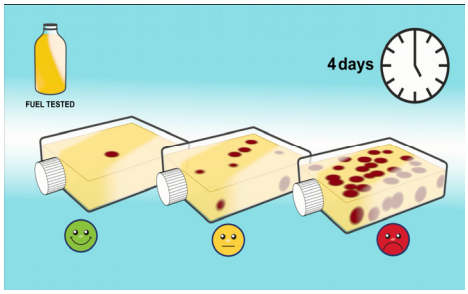
Tap the test firmly in the palm of your hand until the gel forms a flat layer on one of the bottle's larger flat sides.

10



Transfer the test to a warm, dark location or incubator to maintain a temperature of 25°C ± 3°C (77°F ± 5.4°F).

11



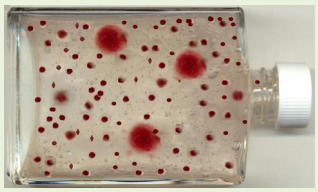
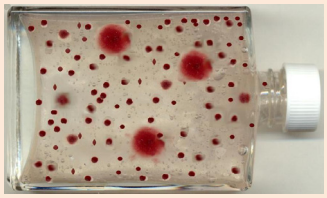
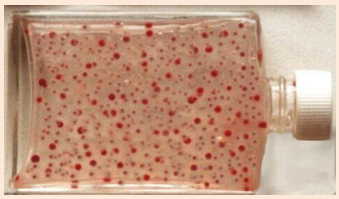
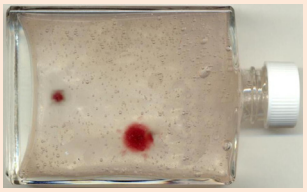
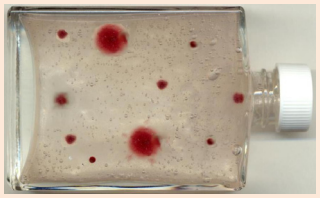
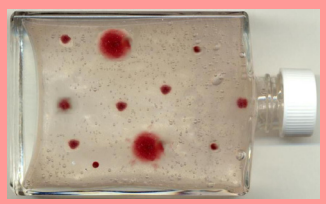
If possible, examine the tests daily. As a minimum, examine at least once in the first three days and then again after 4 days. Avoid agitating or shaking the gel during this time. **IMPORTANT: Keep gel layer flat during incubation and examination.** Hold the test against a light background and count or estimate the number of purple spots (colonies) that appear on the gel (if any). Compare to the Interpretation Chart overleaf to determine whether contamination is Negligible, Moderate or Heavy. Heavy results can be acted on as soon as they are detected, you do not need to wait the full 4 days to confirm these results.

For full details and conditions on use, see MicrobMonitor2 Instructions for Use (EP066)

MICROBMONITOR® 2

echa Results that count

How to Interpret **Microb**Monitor ® **2** Test Results For Aircraft Fuel Tank Drain Samples in Accordance with IATA Guidelines

Interpretation	Water phase **(if present and tested)** (0.1 ml tested)	Fuel phase (0.5 ml tested)
NEGLIGIBLE **(Acceptable)**	**<1000 cfu/ml** *(<100 colonies estimated)*  **to** 	**< 4,000 cfu/litre** *(<2 colonies counted)*  **to** 
MODERATE	**1000 – 10,000 cfu/ml** *(100 – 1000 colonies estimated)*  **to** 	**4000 – 20,000 cfu/litre** *(2 – 10 colonies counted)*  **to** 
HEAVY	**>10,000 cfu/ml** *(>1000 colonies estimated)*  **to** 	**>20,000 cfu/litre** *(>10 colonies counted or estimated)*  **to** 

The pictures shown are typical results for MicrobMonitor2 tests. The size and shape of colonies may vary but it is the number which is important.